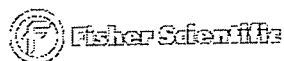


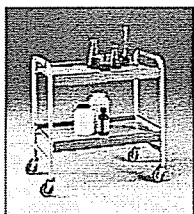
SECTION 12 62 02
SCIENCE - EQUIPMENT SUMMARY

#	CS	Description	Manf/Product (simplified/refer to cutsheet)	Substitution Considered	Locations	Install/ Unpacking	Quantity
12	x	(CAR-03) Chemistry Cart	Lanbconco	x	158,324	Owner	6
13	x	(CAR-04) Cart: General	Rubbermaid	x	147, 149	Owner	4
17	x	(CAR-11) Bone Box Cart	Uline	x	362	Owner	2
20	x	(CAR-14) Autoclave Metro Cart	Uline	x	250	Vendor	3
31	x	(DIU-01) Deionizing Unit - Millipore Q8	EMD Millipore	-	320, 322, 335, 353, 351	Vendor	5
32	x	(DIU-02) Deionizing Unit - Millipore Q3	EMD Millipore	-	340, 342	Vendor	2
34	x	(DRY-01) Clothes Dryer	GE	x	220	Vendor	1
38	x	(FRZ-02) Freezer	Thermo-Scientific	-	350.01	Vendor	1
41	x	(GCB-01) Gas Cabinet	Matheson	-	322.01	Vendor	1
45	x	(INC-04) Incubator - Tall	Thermo-Scientific	-	351, 353	Vendor	4
67	x	(REF-03) Refrigerator/Freezer	Thermo-Scientific	-	331, 333, 335, 338	Vendor	4
69	x	(REF-06) Refrigerator (3 Glass Drs)	True Food Service Equipment	-	351	Vendor	2
78	x	(REF-97) Refrigerator	Norlake Scientific	-	361	Vendor	1
79	x	(REF-98) Refrigerator/Freezer	Fisher Scientific	-	331	Vendor	1
104	x	(DP-01) Digital Polarimeter	Rudolph Research Analytical	-	341	Owner	1
111	x	(ICE-81) Ice Maker	Scotsman	-	338	Vendor	1
117	x	(GW-01) Glass Washer	Lancer	-	351	Vendor	1
118	x	(GW-02) Glass Washer	Lanconco	-	324	Vendor	1
145	x	(VS-01) Spectrophotometer	Thermo-Scientific	-	341	Owner	1

Equipment Code Existing (#)	CAR-03 9	Item Name New (#)	Chemistry Cart 6
Manufacturer	Labconco	Model	8020000
Program	Chemistry	Room Number(s)	158, 324
Description	Stainless steel, Chemical Resistant, Rolling Cart, 3 shelves		
Fixed Mounting Type?		Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling	
Size: In inches, facing the item		Width: 19.5"	Depth: 31"
Weight: In pounds		Height: 34"	
Electrical Requirements?		Voltage(s) Amperage	
		110V, 20A, 1Pha Electrical 208V, 3 Number of amps (current drawn)	
<input type="checkbox"/> Data Outlet Requirements?:		<input type="checkbox"/> Electrical 208V, 3	
<input type="checkbox"/> Process Fluids?:		<input type="checkbox"/> Electrical 480V, 10	
<input type="checkbox"/> None			
<input type="checkbox"/> Cold Water			
<input type="checkbox"/> Hot Water			
<input type="checkbox"/> Lab Grade 2 (2 megaOhm Water			
<input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water			
<input type="checkbox"/> Chilled Water			
<input type="checkbox"/> Drain?:			
check one			
<input type="checkbox"/> None			
<input type="checkbox"/> General Drain			
<input type="checkbox"/> Floor Drain			
<input type="checkbox"/> Acid Waste			
<input type="checkbox"/> Solvent			
OTHER UTILITIES			
Air/ Vacuum/ Exhaust			
COMMENTS			
No utilities required			
Provide Assembly			
Substitution considered.			

CAR-03[Log In](#) | [or Register](#) | [Rapid Order](#) | [Shopping Cart](#)[Search](#)[SCIENTIFIC](#) | [SAFETY](#) | [HEALTHCARE](#) | [SCIENCE EDUCATION](#)

Customer Service: 800-766-7000 | Web Support: 877-885-2081 | All Other Contact Info

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after 30 minutes of inactivity.[Back to Search Results](#)**Labconco* Chemical Cart**

With an acid-, alkali-, and heat-resistant finish

11-927

Click in the table below to
view accessories.**Items Details Images****Description**

- Load capacity: 400 lb. (181kg)
- Strong, welded 1 in. (2.5cm) square, epoxy-coated steel frame; shelves bolted to frame for added strength
- Shelves of phenolic board with high-pressure melamine laminate surface resist damage by acids, alkalis, and high heat
- Top shelf has PVC extrusions on two sides to prevent containers from sliding off; bottom shelf also has rigid plastic guard rails on both ends
- 4 in. dia. (10cm) hard rubber-tired casters provide for easy movement and control; two with toe locks

Specifications & Ordering Information:

Weight: 50 lb. (23kg).

Warranty: Lifetime guarantee.

L x W x H	Mfr. No.	Cat. No.	Quantity	Price
19 x 347/8 x 363/8 in. (48 x 89 x 92cm)	8020000	11-927	<input type="text"/>	

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Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code Existing (#)	CAR-04 0	Item Name New (#)	Cart: General 4
Manufacturer	Rubbermaid	Model	4096
Program	Physics	Room Number (s)	147, 149
Description	3 plastic shelves, 1" deep trays, 12" apart, 4" quiet rubber casters		
Fixed Mounting Type?		Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling	
Size: In inches, facing the item		Width: 41"	Depth: 20"
Weight: In pounds 300 lbs		Height: 51"	
Electrical Requirements?	Voltage(s)	<input type="checkbox"/> 110V, 20A, 1Pha <input type="checkbox"/> Electrical 208V, 3	<input type="checkbox"/> Electrical 208V, 3 <input type="checkbox"/> Electrical 480V, 10
Amperage		Number of amps (current drawn)	
Data Outlet Requirements?: Process Fluids?: <input type="checkbox"/> None <input type="checkbox"/> Cold Water Drain?: check one <input type="checkbox"/> None <input type="checkbox"/> General Drain	<input type="checkbox"/> Data <input type="checkbox"/> Hot Water <input type="checkbox"/> Lab Grade 2 (2 megaOhm Water <input type="checkbox"/> Floor Drain	<input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water <input type="checkbox"/> Chilled Water <input type="checkbox"/> Acid Waste <input type="checkbox"/> Solvent	
OTHER UTILITIES			
Air/ Vacuum/ Exhaust			
COMMENTS			
Provide Assembly			
No required utilities			
Substitution considered			


CAR-04


Country/Region

Products
Where To Buy
Contacts
Company

product name, SKU, or keyword

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[Heavy Duty Utility Carts](#)
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Xtra™ Carts

↓ Scroll down to see 6 more products in the Xtra™ Carts group.

Printable Version

4096 4 Shelf Cart, Open Sided



Durable and attractive carts function in front and back of house applications.

- Sized to carry large loads.
- Large shelves hold various equipment and supplies.
- 300 lbs. (136.1 kg) total load capacity, 100 lbs. (45.4 kg) per shelf.
- Attractive styling ideal for "front-of-house" use.
- Available with enclosed ends or enclosed on three sides for concealing loads.

[View/Download Images of This Product](#)

AVAILABLE COLORS

Order #	Color	Product UPC/ UCC Code
FG409600 BLA	BLA	086876153736 / 00086876153736



Black
BLA

SPECIFICATIONS

	U.S.	Metric
Length:	40 5/8 in	103.2 cm
Width:	20 in	50.8 cm
Height:	51 in	129.5 cm
Mass Capacity [Nom]:	300 lb	136.1 kg
Mass Capacity [Max]:		

Certification [Xtra™ Carts]	Assembly
Carton Cube:	8.72 ft3 0.25 m3
Ship Weight/Carton:	52 lb 23.59 kg

Pack Quantity:	1
Cartons Per Pallet:	4
Material: <u>HDPE</u>	

ADDITIONAL INFORMATION:

Product Sell Sheets: [RCP FS587 Refuse Utility Bins.pdf](#)
Chemical Resistance Guide: [chem.pdf](#)

Products in Xtra™ Carts

Item #	Description	Length	Width	Height	Mass Capacity	Certification [Xtra™ Carts]	Material	Process
4091	Utility Cart, Open Sided	40 5/8 in	20 in	37.8 in	300 lb	Assembly	HDPE	
4092	Utility Cart with Enclosed End Panels on 2 Sides	40 5/8 in	20 in	37.8 in	300 lb	Assembly	HDPE	Structural Web Molding
4093	Utility Cart with Enclosed End Panels on 3 Sides	40 5/8 in	20 in	37.8 in	300 lb	Assembly	HDPE	
4094	Instrument Cart with Lockable Doors and Sliding Drawers	40 5/8 in	20 in	37.8 in	300 lb	Assembly	HDPE	Structural Web Molding
4095	Equipment Cart	40 5/8 in	20 3/4 in	37.8 in	300 lb	Assembly	HDPE	
4096	4 Shelf Cart, Open Sided	40 5/8 in	20 in	51 in	300 lb	Assembly	HDPE	

Accessories for 4096:

No.	Description	Process	Length	Material	Mass Capacity	Height	Volume Capacity	Width
6199	Utility Drawer with Lock							
3353-88	Refuse Bin		12 in			22 in	8 gal	17 in
3354-88	Utility Bin		12 1/8 in			10 1/2 in	4 gal	17 in

Consumables/Replacement Parts for 4096

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code	CAR-11	Item Name	Bone Box Cart
Existing (#)	0	New (#)	2

Manufacturer	Uline	Model	H-3157
--------------	-------	-------	--------

Program	A&P	Room Number (s)	362
---------	-----	-----------------	-----

Description	4 adjustable shelves, 5" locking swivel casters
-------------	---

Fixed

Respond **Yes**, if item is fastened in place or solidly connected to utility services, else **No**.

Mounting
Type?

F= Floorstanding,

D= Desk or benchtop mounted

W= Wall mounted, or suspended from ceiling

F

Size:	In inches, facing the item	Width:	48"	Depth:	24"	Height:	69"
Weight:	In pounds						

Electrical
Requirements?

Voltage(s)

☐

110V, 20A,
1Pha

☐

Electrical 208V, 3

☐

Electrical
208V, 3

☐

Electrical 480V, 10

Amperage

Number of amps (current drawn)

Data Outlet
Requirements?:

☐

Data

Process

Fluids?:

☐

None

☐

Hot Water

☐

Lab Grade 1 (18 megaOhm) Water

☐

Cold Water

☐

Lab Grade 2 (2 megaOhm Water

☐

Chilled Water

Drain?:

check

one

☐

None

☐

General

Drain

☐

Floor Drain

☐

Acid

Waste

☐

Solvent

OTHER UTILITIES

Air/
Vacuum/
Exhaust

COMMENTS

Assembly required.

No Utilities required.

Substitution may be submitted with proposal.

[Home](#) > [Material Handling](#) > [Wire Carts](#) > Mobile Shelving

[Larger Text](#)



Mobile Shelving

HEAVY DUTY

Tough, maneuverable carts move large loads.

- **4 Shelf** – Longer posts give more space for larger items. Greater capacity for less trips.
- Easy to clean; won't collect dirt.
- Shelves adjust in 1" increments.
- 5" locking swivel casters included.
- Optional [Wire Shelving Accessories](#) available.

SHIPS UNASSEMBLED VIA UPS

MODEL NO.	DIMENSIONS W x D x H	SHELF QTY.	CAPACITY (LBS.)	PRICE EACH		WT. (LBS.)	ADD TO CART	
				1	3+			
H-3885	36 x 18 x 69"	4	1,000			62	<input type="text" value="1"/>	ADD
H-3155	36 x 24 x 69"					75	<input type="text" value="1"/>	ADD
H-3156	48 x 18 x 69"					73	<input type="text" value="1"/>	ADD
H-3157	48 x 24 x 69"					87	<input type="text" value="1"/>	ADD
H-3158	60 x 24 x 69"					107	<input type="text" value="1"/>	ADD

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code Existing (#)	CAR-14 0	Item Name New (#)	Autoclave Metro Cart 3
Manufacturer	Uline	Model	H-3155
Program	Biology	Room Number (s)	350
Description	4 adjustables shelves, 5" locking swivel casters		
Fixed Mounting Type?	Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling F		
Size: In inches, facing the item	Width: 36"	Depth: 24"	Height: 69"
Weight: In pounds			
Electrical Requirements?	Voltage(s)	110V, 20A, 1Pha Electrical 208V, 3	Electrical 208V, 3 Electrical 480V, 10
	Amperage	Number of amps (current drawn)	
Data Outlet Requirements?: Process Fluids?: Drain?: check one	<input type="checkbox"/> None <input type="checkbox"/> Cold Water <input type="checkbox"/> None <input type="checkbox"/> General Drain	<input type="checkbox"/> Hot Water <input type="checkbox"/> Lab Grade 2 (2 megaOhm Water <input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water <input type="checkbox"/> Chilled Water <input type="checkbox"/> Acid Waste <input type="checkbox"/> Solvent	
OTHER UTILITIES			
Air/ Vacuum/ Exhaust			
COMMENTS			
Assembly required.			
No utilities required.			
Substitution may be submitted with proposed.			

[Home](#) > [Material Handling](#) > [Wire Carts](#) > Mobile Shelving

[Larger Text](#)



Mobile Shelving

HEAVY DUTY

Tough, maneuverable carts move large loads.

- **4 Shelf** – Longer posts give more space for larger items. Greater capacity for less trips.
- Easy to clean; won't collect dirt.
- Shelves adjust in 1" increments.
- 5" locking swivel casters included.
- Optional [Wire Shelving Accessories](#) available.

SHIPS UNASSEMBLED VIA UPS

MODEL NO.	DIMENSIONS W x D x H	SHELF QTY.	CAPACITY (LBS.)	PRICE EACH		WT. (LBS.)	ADD TO CART	
				1	3+			
H-3885	36 x 18 x 69"					62	<input type="text" value="1"/>	ADD
H-3155	36 x 24 x 69"					75	<input type="text" value="1"/>	ADD
H-3156	48 x 18 x 69"	4	1,000			73	<input type="text" value="1"/>	ADD
H-3157	48 x 24 x 69"					87	<input type="text" value="1"/>	ADD
H-3158	60 x 24 x 69"					107	<input type="text" value="1"/>	ADD

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code Existing (#)	DIU-01 0	Item Name New (#)	Deionizing Unit – Millipore Q8 5
Manufacturer	EMD Millipore	Model	ZRQSVR800 (Q8)
Program	Chemistry, Biology	Room Number (s)	320, 322, 335, 353, 351
Description	Provide with remote dispenser Direct Q-8 UV Units with 30L reservoir		
Fixed Mounting Type?		Y Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling	
Size: In inches, facing the item Weight: In pounds		Width: 11.43"	Depth: 11.2" Height: 20.66"
Electrical Requirements?		Voltage(s) 110V, 20A, 1Pha <input checked="" type="checkbox"/> Electrical 208V, 3 Amperage <input type="checkbox"/> 208V, 3 <input type="checkbox"/> Electrical 480V, 10 Number of amps (current drawn)	
Data Outlet Requirements?: Process Fluids?: <input type="checkbox"/> None <input checked="" type="checkbox"/> Cold Water Drain?: check one <input type="checkbox"/> None <input checked="" type="checkbox"/> General Drain	Data <input type="checkbox"/> Hot Water <input type="checkbox"/> Lab Grade 2 (2 megaOhm Water) <input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water <input type="checkbox"/> Chilled Water <input type="checkbox"/> Acid Waste <input type="checkbox"/> Solvent		
OTHER UTILITIES Air/ Vacuum/ Exhaust			
COMMENTS Install under sinks (Including 30 L reservoir) with approximately 1" diameter hole for the remote dispenser to be mounted on the wall over and above the sink. Verify exact location with users.			

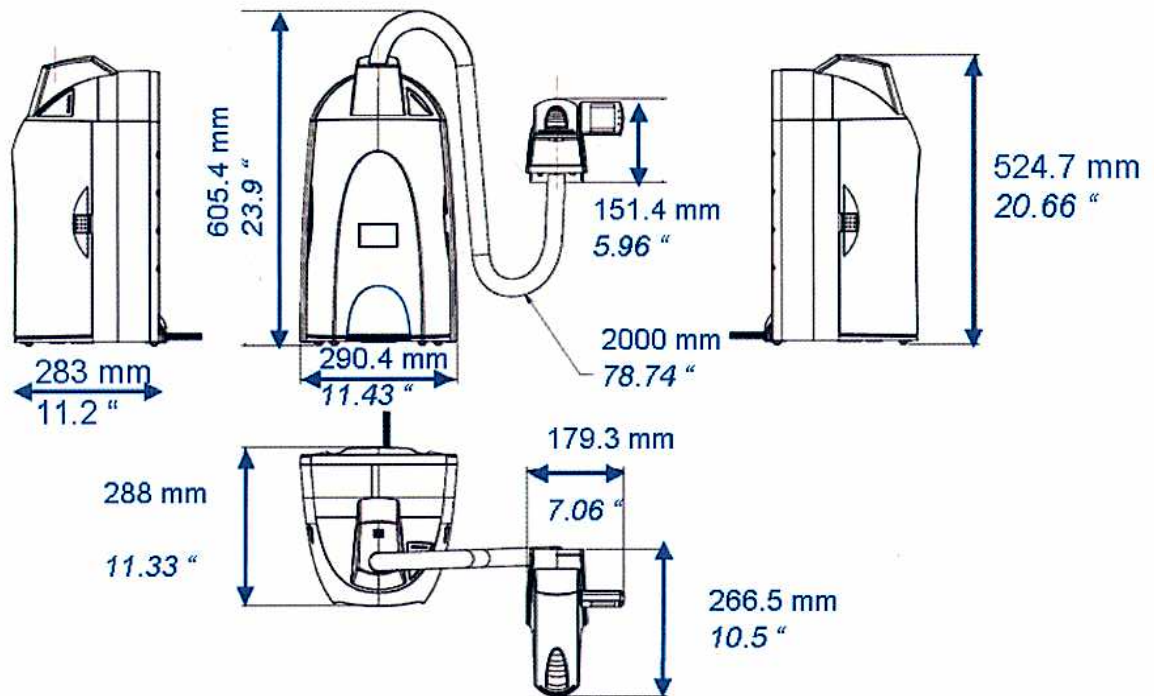


Direct-Q[®] 3, 5, 8 R system
Direct-Q 3, 5, 8 UV-R system
User manual



Direct-Q 5 UV-R & 8 UV-R Cut Sheets

Catalogue Numbers	ZRQSVR500, ZRQSVR800
Feed Water	Potable tap water, 0.5 to 6 bar
Product Water	Type 3 & Type 1 water
Drain for reject	Capacity > 50 L/hour
Electrical Connections	100 – 230 V / 50-60 Hz, grounded
Mandatory Accessory	PE Tank (30 L or 60 L)
Optional Accessory	Stand for supporting the remote dispenser (RDHSTAND1) Spacer to connect the remote dispenser to wall (RDHSPACE1)
Cut Sheet date & Revision	October 18 th , 2011 – Rev 1
Last Revision Author	J-F Pilette



Details of the Remote Dispenser Head

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code Existing (#)	DIU-02 0	Item Name New (#)	Deionizing Unit – Millipore Q3 Bought 2
Manufacturer	EMD Millipore	Model	ZRQS0P300 (Q3)
Program	Chemistry	Room Number (s)	340, 342
Description	Direct – Q3 R Units with 30L reservoir.		

Fixed Mounting Type?	Y W	Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling
----------------------------	------------	---

Size: In inches, facing the item	Width: 21.3"	Depth: 11.4"	Height: 15"
Weight: In pounds			

Electrical Requirements?	Voltage(s)	<input checked="" type="checkbox"/>	110V, 20A, 1Pha	<input type="checkbox"/>	Electrical 208V, 3
		<input type="checkbox"/>	Electrical 208V, 3	<input type="checkbox"/>	Electrical 480V, 10
	Amperage		Number of amps (current drawn)		

Data Outlet Requirements?:	<input type="checkbox"/>	Data	
Process Fluids?:	<input type="checkbox"/> None	<input type="checkbox"/> Hot Water	<input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water
	<input checked="" type="checkbox"/> Cold Water	<input type="checkbox"/> Lab Grade 2 (2 megaOhm) Water	<input type="checkbox"/> Chilled Water
Drain?: check one	<input type="checkbox"/> None	<input checked="" type="checkbox"/> General Drain	<input type="checkbox"/> Acid Waste
		<input type="checkbox"/> Floor Drain	<input type="checkbox"/> Solvent

OTHER UTILITIES
 Air/
 Vacuum/
 Exhaust

COMMENTS
 Install under sinks (including reservoir) with approximately 1" diameter hole for remote dispenser – to be mounted on wall over/above the sink.
 Verify exact location with users.
 Provide/Install 2 Wall mounted dispensers.

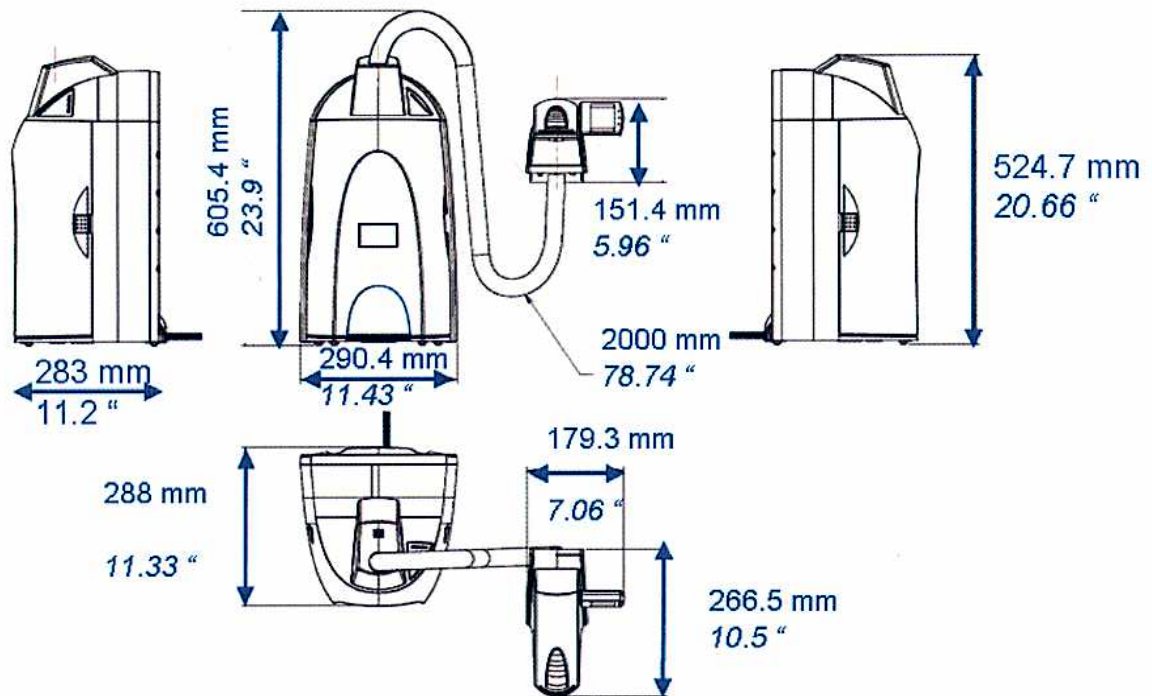


Direct-Q[®] 3, 5, 8 R system
Direct-Q 3, 5, 8 UV-R system
User manual



Direct-Q 5 UV-R & 8 UV-R Cut Sheets

Catalogue Numbers	ZRQSVR500, ZRQSVR800
Feed Water	Potable tap water, 0.5 to 6 bar
Product Water	Type 3 & Type 1 water
Drain for reject	Capacity > 50 L/hour
Electrical Connections	100 – 230 V / 50-60 Hz, grounded
Mandatory Accessory	PE Tank (30 L or 60 L)
Optional Accessory	Stand for supporting the remote dispenser (RDHSTAND1) Spacer to connect the remote dispenser to wall (RDHSPACE1)
Cut Sheet date & Revision	October 18 th , 2011 – Rev 1
Last Revision Author	J-F Pilette



Details of the Remote Dispenser Head

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code	DRY-01	Item Name	Clothes Dryer
Existing (#)	0	New (#)	1

Manufacturer	GE	Model	GFDN120GDWW
--------------	----	-------	-------------

Program	PTA	Room Number (s)	220
---------	-----	-----------------	-----

Description	7 CF – Gas dryer – white, HE sensor, dry front loading, min 4 heat setting, preview/ 13” pedestal dryer
-------------	---

Fixed

Respond **Yes**, if item is fastened in place or solidly connected to utility services, else **No**.

Mounting
Type?

F= Floorstanding,

D= Desk or benchtop mounted

W= Wall mounted, or suspended from ceiling

Size:	In inches, facing the item	Width:	27"	Depth:	32"	Height:	40"
Weight:	In pounds						

Electrical
Requirements?

Voltage(s)

☒

110V, 20A,
1Pha

☐

Electrical 208V, 3

☐

Electrical
208V, 3

☐

Electrical 480V, 10

Amperage

6

Number of amps (current drawn)

Data Outlet
Requirements?:

☐

Data

Process

Fluids?:

☐

None

☐

Hot Water

☐

Lab Grade 1 (18 megaOhm) Water

☐

Cold Water

☐

Lab Grade 2 (2 megaOhm Water

☐

Chilled Water

Drain?:

check

one

☐

None

☐

General

Drain

☐

Floor Drain

☐

Acid

Waste

☐

Solvent

OTHER UTILITIES

Air/
Vacuum/
Exhaust

Gas Service & Exhaust provided

COMMENTS

Alternate Manufacturer meeting unit requirements - whirlpool

GE® 7.0 Cu. Ft. Capacity Gas Dryer



Model# GFDN120GDWW



- Dura Drum interior - Provides long-lasting dependability
- HE Sensor Dry - Keep your clothes looking and feeling their best. Dual thermistors continually monitor temperature with a sensor bar that measures moisture to prevent over-drying
- Speed Dry - Quickly dries items and small loads for families on the go
- eDry™ option - Energy-saving option reduces dry temperatures on select cycles without sacrificing performance
- 4 heat selections - Provide the right temperatures for your clothes-drying needs
- Delay start - Set the dryer to begin cycles whenever it's convenient for you

FEATURES

Temperature Options	High/Medium/Low/Extra Low
Control Type	Rotary-Electronic w/LEDs
Heat Selections	4
Moisture Sensor	HE SensorDry™
Speed Dry	Yes
Style	Front-Loading
Dual Thermistors	Yes
Additional Cycles	Normal/Mixed Load Air Fluff Extended Tumble Delicates Timed Dry Dewrinkle
Delicates Cycle	Yes
Dryness Levels	Damp Dry Less Dry More Dry
Timed Dry	Yes 90 Minutes
Tumble Drying	Yes
Cottons Cycle	Yes
Number of Cycles	7
Air Fluff (no heat)	Yes
Easy Care Cycle	Yes
Energy Saving Option	Yes - eDry™
Removable Up-Front Lint Filter	Yes
Drum Type	Dura Drum
Exhaust Options	3-Way (Rear; Left; Bottom)
Flexible Installation	Undercounter, Stacked, Side-by-Side, Built-In
Fuel Type	Gas
Reverse-a-Door	Yes
Additional Dryer Features	Front Serviceable Lint Filter with Reminder Interior Light
Dryer Control Features	LED Cycle Countdown Control Lock Add Time End-of-Cycle Signal LED Indicators

Have more questions? Please contact 1-800-626-2005

GE® 7.0 Cu. Ft. Capacity Gas Dryer



Model# GFDN120GDWW

APPROXIMATE DIMENSIONS (HxDxW)

- 39 3/8 in x 32 3/16 in x 27 in

CAPACITY

- Total Capacity (cubic feet) 7.0 cu ft

Claims & Certifications

- ADA Compliant

WARRANTY

- Labor Warranty - Limited 1-year entire appliance
- Parts Warranty - Limited 1-year entire appliance
- Warranty Notes - See written warranty for full details

Have more questions? Please contact 1-800-626-2005

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code Existing (#)	FRZ-02 0	Item Name New (#)	Freezer 1
Manufacturer	Thermo-Scientific	Model	UXF30086A
Program	Biology	Room Number (s)	350.01
Description			
Fixed _____ Mounting Type? _____		Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling	
Size:	In inches, facing the item	Width:	37.6"
Weight:	In pounds 667 lb	Depth:	27"
		Height:	78"
Electrical Requirements?	Voltage(s)	<input checked="" type="checkbox"/> 110V, 20A, 1Pha <input type="checkbox"/> Electrical 208V, 3 Amperage 16 Amps	<input type="checkbox"/> Electrical 208V, 3 <input type="checkbox"/> Electrical 480V, 10 Number of amps (current drawn)
Data Outlet Requirements?:	<input type="checkbox"/>	Data	
Process Fluids?:	<input type="checkbox"/> None <input type="checkbox"/> Cold Water	<input type="checkbox"/> Hot Water <input type="checkbox"/> Lab Grade 2 (2 megaOhm Water)	<input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water <input type="checkbox"/> Chilled Water
Drain?: check one	<input type="checkbox"/> None <input type="checkbox"/> General Drain	<input type="checkbox"/> Floor Drain	<input type="checkbox"/> Acid Waste <input type="checkbox"/> Solvent
OTHER UTILITIES			
Air/ Vacuum/ Exhaust			
COMMENTS			
AO-602			

FRZ-02

Thermo

SCIENTIFIC

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Revco™ UxF -86°C Upright

Thermo Scientific™ Revco UxF freezers deliver ultimate protection and optimum capacity for your most critical samples. Built specifically to protect the most critical samples, these new freezers achieve exceptional thermal performance, safety and security through state-of-the-art engineering.

Part Number	Description	Quantity	
UxF30086A	Capacity: 14.9 cu. ft. (420.9L); Holds 300 boxes; 115V/60Hz	<input type="text"/>	Request Quote
UxF30086D	Capacity: 14.9 cu. ft. (420.9L); Holds 300 boxes; 208-230V/60Hz	<input type="text"/>	Request Quote
UxF30086V	Capacity: 14.9 cu. ft. (420.9L); Holds 300 boxes; 230V/50Hz	<input type="text"/>	Request Quote
UxF40086A	Capacity: 19.4 cu. ft. (547.9L); Holds 400 boxes; 115V/60Hz	<input type="text"/>	Request Quote
UxF40086D	Capacity: 19.4 cu. ft. (547.9L); Holds 400 boxes; 208-230V/60Hz	<input type="text"/>	Request Quote
UxF40086V	Capacity: 19.4 cu. ft. (547.9L); Holds 400 boxes; 230V/50Hz	<input type="text"/>	Request Quote
UxF50086A	Capacity: 24.1 cu. ft. (681.5L); 115V/60Hz	<input type="text"/>	Request Quote
UxF50086D	Capacity: 24.1 cu. ft. (681.5L); Holds 500 boxes; 208-230V/60Hz	<input type="text"/>	Request Quote
UxF50086V	Capacity: 24.1 cu. ft. (681.5L); Holds 500 boxes; 230V/50Hz	<input type="text"/>	Request Quote
UxF60086A	Capacity: 28.8 cu. ft. (815.1L); Holds 600 boxes; 115V/60Hz	<input type="text"/>	Request Quote
UxF60086D	Capacity: 28.8 cu. ft. (815.1L); Holds 600 boxes; 208-230V/60Hz	<input type="text"/>	Request Quote
UxF60086V	Capacity: 28.8 cu. ft. (815.1L); Holds 600 boxes; 230V/50Hz	<input type="text"/>	Request Quote
UxF70086D	Capacity: 33.5 cu. ft. (948.7L); Holds 700 boxes; 208-230V/60Hz	<input type="text"/>	Request Quote
UxF70086V	Capacity: 33.5 cu. ft. (948.7L); Holds 700 boxes; 230V/50Hz	<input type="text"/>	Request Quote

Please Note: Availability may vary by country.

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Thermo Scientific Revco UxF Series deliver a range of features including:

- More Samples, Less Freezer Footprint: maximize sample storage capacity while minimizing the freezer's physical space inside the lab
- Performance: features an outstanding BTU (British thermal unit) reserve. This leads to fast door recovery times so that sample integrity isn't compromised†
- Energy-Efficiency: allow you to save up to 15% in energy usage with the energy-savings mode‡ or choose the high-performance mode for applications requiring ultra-tight temperature uniformity—all through an easy-to-use, touch-screen interface
- Sample Storage Capacity: available in five sizes, featuring outstanding capacity per footprint specifications†
- Safety and Security: feature an innovative, touch-screen control panel that allows 24/7 monitoring of the freezer's health provides access to a detailed event log—built-in USB port enables easy downloading of event log reports to a portable drive
- New Cabinet + Vacuum Insulation Panel Technology: increases the internal capacity of 2 inch vials up to 4.2 percent‡; gain up to 76% more capacity in the same footprint†† with 1mL CryoBank tubes
- Choice of Refrigeration: For the strictest tolerances, the high-performance mode provides the tightest temperature uniformity and peak variation††—for most applications, energy-savings mode offers excellent temperature control, plus up to 15% savings on energy usage
- Environmentally-friendly, CFC/HCFC free refrigerants
- NEW refrigeration system: with high-efficiency compressors for excellent performance and reliability
- Braze plate heat exchanger for more efficient heat transfer—induction brazed joints to reduce leak potential and improve reliability
- Power management system: protects against a wide range of voltage variation and is easily accessible through the touch-screen display
- Remote alarm contacts: with 4-20 milliamp output compatible with external alarm and monitoring systems
- Two rear access, 1-inch (25mm) ports: allow for the use of inexpedient probes or instrumentation
- On-board data storage: Store up to 15 years worth of temperature and event data on our on-board computer
- Easily exchange data: Use the new USB port to download freezer temperature and event log data, or freezer settings from one freezer to another
- Easy-to-remove, washable filter: Provides protection against dust on the condenser, which can cause reduced refrigeration performance and increased risk to samples
- NEW reinforced shelves: Store up to 278 lbs. of samples (depending on freezer model) on our reinforced, stainless steel shelving
- NEW outer door gaskets: 4x7 heated gasket provides four touchpoints of security and seven zones of protection, maximizing cabinet temperature and eliminating frost build-up
- NEW inner doors: Five polystyrene insulated inner doors help maintain cabinet temperature during openings and feature embedded rare earth magnets, eliminating exposed latches or magnets
- Several optional features including: LN₂ and CO₂ back-up systems, chart recorder, stainless steel inventory racking solutions and hands-free, proximity-card access system

†Based on internal performance data; Data on file May 2011

††Compared to energy-savings and high-performance modes.

Certifications: cULus, CE listed

Cat. No.	Capacity	Interior D x W x H	Exterior D x W x H	Inner Doors	No. of Boxes	Electrical Requirements	Shipping Weight
UxF30086A	14.9 cu. ft. (420.9L)	28.29 x 17.778 x 51.225 in. (71.8566 x 45.15612 x 130.1115cm)	37.6 x 27 x 78 in. (95.5 x 68.6 x 198.1cm)	5	300	115V/60Hz 16/20	667 lb. (303kg)
UxF30086D	14.9 cu. ft. (420.9L)	28.29 x 17.778 x 51.225 in. (71.8566 x 45.15612 x 130.1115cm)	37.6 x 27 x 78 in. (95.5 x 68.6 x 198.1cm)	5	300	208-230V/60Hz 12/15	667 lb. (303kg)
UxF30086V	14.9 cu. ft. (420.9L)	28.29 x 17.778 x 51.225 in. (71.8566 x 45.15612 x 130.1115cm)	37.6 x 27 x 78 in. (95.5 x 68.6 x 198.1cm)	5	300	230V/50Hz 12/16	667 lb. (303kg)
UxF40086A	19.4 cu. ft. (547.9L)	28.29 x 23.125 x 51.225 in. (71.8566 x 58.7375 x 130.1115cm)	37.6 x 32.4 x 78 in. (95.5 x 82.2 x 198.1cm)	5	400	115V/60Hz 16/20	730 lb. (332kg)
UxF40086D	19.4 cu. ft. (547.9L)	28.29 x 23.125 x 51.225 in. (71.8566 x 58.7375 x 130.1115cm)	37.6 x 32.4 x 78 in. (95.5 x 82.2 x 198.1cm)	5	400	208-230V/60Hz 12/15	730 lb. (332kg)
UxF40086V	19.4 cu. ft. (547.9L)	28.29 x 23.125 x 51.225 in. (71.8566 x 58.7375 x 130.1115cm)	37.6 x 32.4 x 78 in. (95.5 x 82.2 x 198.1cm)	5	400	230V/50Hz 12/16	730 lb. (332kg)
UxF50086A	24.1 cu. ft. (681.5L)	28.29 x 28.75 x 51.225 in. (71.8566 x 73.025 x 130.1115cm)	37.6 x 38 x 78 in. (95.5 x 96.5 x 198.1cm)	5	500	115V/60Hz 16/20	782 lb. (355kg)
UxF50086D	24.1 cu. ft. (681.5L)	28.29 x 28.75 x 51.225 in. (71.8566 x 73.025 x 130.1115cm)	37.6 x 38 x 78 in. (95.5 x 96.5 x 198.1cm)	5	500	208-230V/60Hz 12/15	782 lb. (355kg)
	24.1 cu. ft.	28.29 x 28.75 x 51.225 in. (71.8566 x 73.025 x 130.1115cm)	37.6 x 38 x 78 in. (95.5 x 96.5 x 198.1cm)				782 lb.

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code	GCB-01	Item Name	Gas Cylinder Cabinet
Existing (#)	0	New (#)	1

Manufacturer	Chemistry	Model	1178F – 2 cylinder
--------------	-----------	-------	--------------------

Program		Room Number (s)	322.01 – Chemistry Service Room
---------	--	-----------------	---------------------------------

Description	Automatic Door Closure, Modular U Channel Supports, Lockable Access Panel, Paddle Type Latch, Neoprene Gaskets, Standard Inlet Air louver, Fire Sprinkler Head, Fusible link & adjustable shelf
-------------	---

Fixed

Mounting
Type?

Respond **Yes**, if item is fastened in place or solidly connected to utility services, else **No**.

F= Floorstanding,

D= Desk or benchtop mounted

W= Wall mounted, or suspended from ceiling

Size:	In inches, facing the item	Width:	18"	Depth:	19"	Height:	79"
Weight:	In pounds						

Electrical
Requirements?

Voltage(s)

☐

110V, 20A,
1Pha
Electrical
208V, 3

☐

Electrical 208V, 3

☐

Electrical 480V, 10

Amperage

Number of amps (current drawn)

Data Outlet
Requirements?:
Process

☐

Data

Fluids?:

☐

None

☐

Hot Water

☐

Lab Grade 1 (18 megaOhm) Water

☐

Cold Water

☐

Lab Grade 2 (2 megaOhm Water

☐

Chilled Water

Drain?:

check
one

☐

None

☐

General
Drain

☐

Floor Drain

☐

Acid
Waste

☐

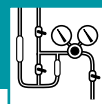
Solvent

OTHER UTILITIES

Air/
Vacuum/
Exhaust

COMMENTS

Sprinkler/ water connection not required.



Gas Cylinder Cabinets

Model 1170 Series

Matheson Model 1170 is our standard gas cabinet series with a flat top design. The new construction is optimized for economy, without compromising safety or quality.

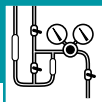
- **Automatic door closure** to ensure containment of leaks
- **Modular U-Channel Supports** make installation of gas control panels, cylinder supports, shelving, and other equipment easy.
- **Lockable access panel and wire reinforced safety glass viewing window** have steel frames and are fully gasketed.
- **Non-protruding paddle type latch** prevents accidental opening and snagging. It slams and latches at three points and is fitted with a lock for security.
- **Neoprene gaskets** fit snugly around door to ensure a positive seal
- **Standard inlet air louver or optional diffuser plate** fitted with an inlet filter (p/n VEN-0101-XX) lets air into the cabinet.
- **Flat-top design** with exhaust stack.
- **Fire sprinkler head**, for extra protection with a fuse rating of 155°F.
- **Cylinder restraints** to ensure that all cylinders are held securely in place during storage and operation
- **Rugged exterior construction** of 12-gauge cold rolled steel with welding seams.
- Interior and exterior is finished with gray **2-part polyurethane paint**.
- **Low profile, one-inch reinforced threshold** makes cylinder installation and removal easy.

Specifications for Model 1170 Series and Hard Hat Series (Meet or exceed Article 80 UFC requirements)

Cabinet:	12 gauge cold rolled steel
Gaskets:	Neoprene with oil resistant adhesive
Window:	1/4" wire reinforced safety glass
Paint:	2-part polyurethane; interior and exterior – light gray
Cabinet Floor:	Zinc-plated steel
Doors:	1 and 2 cylinder cabinets – one door with left hand hinge 3 cylinder cabinet – double door with off-center post
Integral Sprinkler:	Fuse rating of 155°F and flow capacity of 35 GPM @ 40 psi
Water Pipe Connection:	1/2" NPT Female

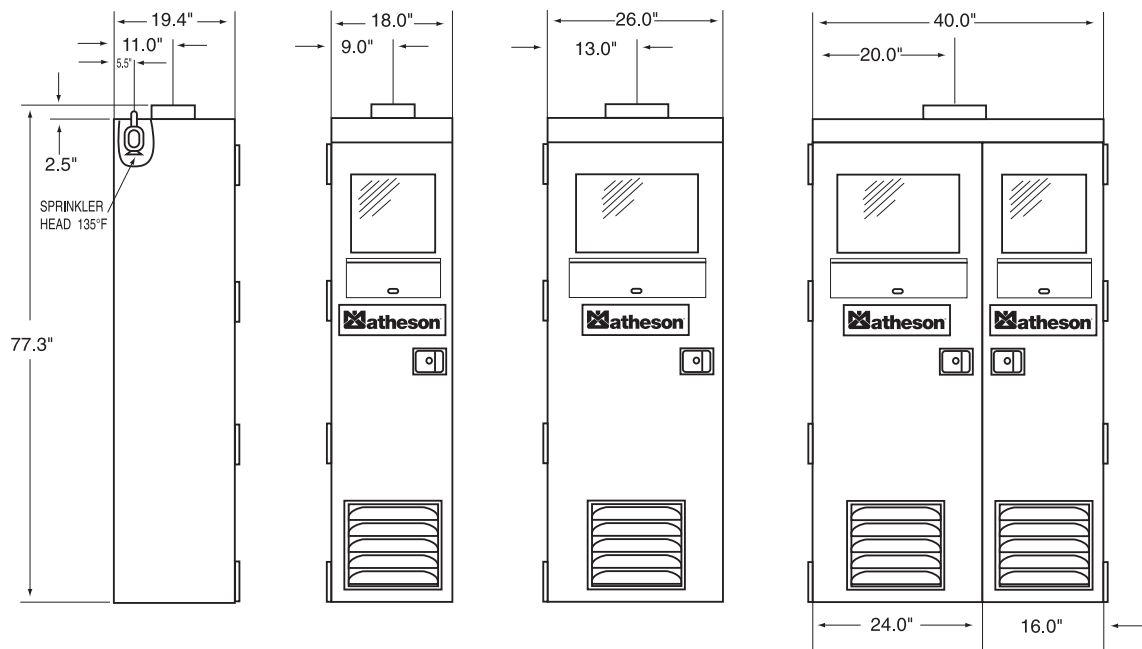


Model No.	Cabinet Type	Overall Height	Depth	Width	Exhaust Flow Required (SCFM)	Exhaust Stack Diameter	Shipping Weight lbs
1177F	1 Cylinder	79"	19"	18"	175	4"	300
1178F	2 Cylinder	79"	19"	26"	250	6"	380
1179F	3 Cylinder	79"	19"	40"	450	8"	540



Gas Cabinet Dimensions and Options

Model 1170 Series



Gas Cabinet Options

- **Adjustable Cylinder Shelf** (see table for part number) – mounted on the U-Channel tracks. The shelf provides a convenient means of installing small cylinders. Perforations in the shelf allow cabinet air to sweep around the entire cylinder.
- **Fusible Link** (see table for part numbers) – installed in the center of the cabinet door. Offers immediate response in the event of a fire. Once the heat melts the fusible link, a guillotine damper blocks the inlet air supply.
- **Cylinder Scales** – recommended for use with all liquefied gases. Provides the weight of contents remaining in the cylinders. Manual and electronic cylinder scale models are available. (See pages 431 - 432)

Model No.	Description
1190-S	Adjustable cylinder shelf
1177F-6	Fusible link for Model 1177F
1178F-6	Fusible link for Model 1178F
1179F-6	Fusible link for Model 1179F
VEN-0101-XX	Optional diffuser plate with inlet air filter

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code	INC-04	Item Name	Incubator-Tall
Existing (#)	0	New (#)	4

Manufacturer	Thermo-Scientific	Model	51029321
--------------	-------------------	-------	----------

Program	Biology	Room Number (s)	351(1), 353(3)
---------	---------	-----------------	----------------

Description	Microbiological incubator. Catalog number 5102931 #405L, 41.3 CF, 2 Shelves, Gravity Connection, Coated Exterior
-------------	--

Fixed

Respond **Yes**, if item is fastened in place or solidly connected to utility services, else **No**.

Mounting
Type?

F= Floorstanding, D= Desk or benchtop mounted
W= Wall mounted, or suspended from ceiling

F

Size:	In inches, facing the item	Width:	30.3"	Depth:	30.6"	Height:	60.8"
Weight:	In pounds		320 lbs				

Electrical
Requirements?

Voltage(s)



110V, 20A,
1Pha
Electrical
208V, 3



Electrical 208V, 3



Electrical 480V, 10

Amperage

9 Amps

Number of amps (current drawn)

Data Outlet
Requirements?:



Data

Process

Fluids?:



None



Hot Water



Lab Grade 1 (18 megaOhm) Water



Cold Water



Lab Grade 2 (2 megaOhm Water



Chilled Water

Drain?:

check
one



None



General
Drain



Floor Drain



Acid
Waste



Solvent

OTHER UTILITIES

Air/
Vacuum/
Exhaust

120 V Power, 1080 W, 9 Amps. Electric plug - Nema 5-15 US

COMMENTS

Provide/ Install electric plug Nema 5-15 US

Provide with casters.



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51028063



Heratherm™ General Protocol Microbiological Incubators

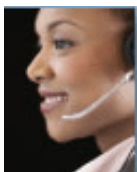
Thermo Scientific™ Heratherm General Protocol Microbiological Incubators are ideally suited for routine applications, with sample safety in mind.

The Heratherm General Protocol Incubator line is designed for applications in pharmaceutical, medical, food and research laboratories. **Availability may vary by country.**

Products on this page may include voltages not considered standard in North America. Please review carefully.

Part Number	Description	Quantity	Request
51028063	75L; Gravity Convection; Coated exterior; 120V/60Hz		

51028065	194L (6.9 cu. ft.)	0.47 sq. m (5.1 sq. ft.)	708mm (23.2 x 18.3 x 27.9 in.)	920mm (29.1 x 25.2 x 36.2 in.)	2 / 19	120VAC 60Hz; 720w; 6A; Nema 5- 15 US	65kg (143 lbs.)
51028132	194L (6.9 cu. ft.)	0.47 sq. m (5.1 sq. ft.)	589 x 464 x 708mm (23.2 x 18.3 x 27.9 in.)	738 x 640 x 920mm (29.1 x 25.2 x 36.2 in.)	2 / 19	230VAC 50/60Hz; 710w; 3.1A; Country-specific	65kg (143 lbs.)
51029321	405L (14.3 cu. ft.)	0.56 sq. m (6.0 sq. ft.)	569 x 544 x 1307mm (22.4 x 21.4 x 51.5 in.)	770 x 778 x 1545mm (30.3 x 30.6 x 60.8 in.)	2 / 39	120VAC 60Hz; 1080W; 9A; Nema 5-15 US	145kg (320 lbs.)
51029322	405L (14.3 cu. ft.)	0.56 sq. m (6.0 sq. ft.)	569 x 544 x 1307mm (22.4 x 21.4 x 51.5 in.)	770 x 778 x 1545mm (30.3 x 30.6 x 60.8 in.)	2 / 39	230VAC 50/60Hz; 1200w; 5A; Country-specific	145kg (320 lbs.)
51029333	747L (26.4 cu. ft.)	0.91 sq. m (9.8 sq. ft.)	569 x 1004 x 1307mm (22.4 x 39.5 x 51.5 in.)	770 x 1261 x 1545mm (30.3 x 49.7 x 60.8 in.)	2 / 39	120VAC 60Hz; 1500w; 12.5A; Nema 5-15 US	201kg (443 lbs.)
51029334	747L (26.4 cu. ft.)	0.91 sq. m (9.8 sq. ft.)	569 x 1004 x 1307mm (22.4 x 39.5 x 51.5 in.)	770 x 1261 x 1545mm (30.3 x 49.7 x 60.8 in.)	2 / 39	230VAC 50/60Hz; 1500w; 6.5A; Country-specific	201kg (443 lbs.)



Need Help?

Have a Question?
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Equipment Code Existing (#)	REF-03 0	Item Name New (#)	Refrigerator/Freezer 3
Manufacturer	Thermo-Scientific - Jewett	Model	R250-1B
Program	Biology	Room Number (s)	331, 333, 335
Description	2 doors, 1 Freezer Shelf, 4 refrigerator shelves		
Fixed _____ Mounting Type? _____		Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling	
Size: _____ Weight: _____	In inches, facing the item In pounds	Width: 36"	Depth: 33.6" Height: 68.6"
Electrical Requirements?	Voltage(s) _____	<input checked="" type="checkbox"/> 110V, 20A, 1Pha <input type="checkbox"/> Electrical 208V, 3 Amperage 5.7 Amps	<input type="checkbox"/> Electrical 208V, 3 <input type="checkbox"/> Electrical 480V, 10 Number of amps (current drawn)
Data Outlet Requirements?: Process Fluids?: Drain?: check one	<input type="checkbox"/> None <input type="checkbox"/> Cold Water <input type="checkbox"/> None <input type="checkbox"/> General Drain	Data <input type="checkbox"/> Hot Water <input type="checkbox"/> Lab Grade 2 (2 megaOhm Water <input type="checkbox"/> Floor Drain	<input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water <input type="checkbox"/> Chilled Water <input type="checkbox"/> Acid Waste <input type="checkbox"/> Solvent
OTHER UTILITIES			
Air/ Vacuum/ Exhaust			
COMMENTS			
Confirm width of refrigerator in field prior to ordering.			
Provide with casters.			

REF-03



Call to order:
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Thermo Scientific General Purpose Refrigerator/Freezer - (-12 C to -20 C) - R250-1B



Thermo Scientific General Purpose Refrigerator/Freezer - (-12 C to -20 C) - R250-1B

SKU: R250-1B
Mfg Number:
Capacity: 24.6 Cu. Ft.
Temperature: 2 to 10 C (R), -12 to -20 C (F)
Color: White
Dimensions: 68.6"H x 33.6"D x 36"W
Defrost: Automatic
Door: Solid

Availability: Discontinued
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0

Medical Appliances

- Autoclaves
- Blood Storage
- Chromatography Refrigerators
- Cryogenic Storage Systems
- Explosion Proof Refrigerator
- Freezers
- Lab & Pharmacy Refrigerator
- Lab Convection Ovens
- Lab Incubators
- Medical Freezers to -25 C
- Medical Freezers to -30 C
- Medical Freezers to -40 C
- Portable Medical Freezers
- Refrigerator / Freezer Combo
- Refrigerator Freezer Combo
- Stability & Humidity Chambers
- Ult Low Temp Freezers -140 C
- Ult Low Temp Freezers -150 C
- Ultra Low Temp Freezers -85 C
- Ultra Low Temp Freezers -86 C
- Undercounter Medical
- Medical Appliance Accessories

Commercial Appliances

- Beverage Centers
- Commercial Freezers
- Commercial Refrigerators
- Ice Cream Freezers
- Reach-In Freezers
- Reach-In Refrigerators

Refrigerators

- Beverage Centers
- Bottom-Freezer Refrigerators
- Compact Refrigerator Freezer
- Drawer Refrigerators
- Freezerless Refrigerators
- Outdoor Refrigerators
- Side by Side Refrigerator
- Top-Freezer Refrigerators

Freezers

- Chest Freezers
- Compact Upright Freezers
- Drawer Freezers
- Full Size Upright Freezers
- Portable 12V Freezers / Coolers
- Under Counter Upright Freezers

Water Cooler Dispensers

- Bottled Water Dispensers
- POU Water Cooler Dispensers

Description Specifications Features	
Thermo Scientific General Purpose Refrigerator/Freezer R250- 1B Specifications	
Style	Upright
Cu.Ft./ Liters Ref	17.5 Cu. Ft.
Cu.Ft./ Liters Frz	7.1 Cu. Ft.
Amps/ Breaker	5.7/15
Solid Doors	2
Shelves Refrigerator	4 interior, 6 door
Shelves Freezer	1 interior 2 door
Temperature Range (Freezer)	-12 Deg to -20 Deg C
Temperature Range (Refrigerator)	2 Deg to 10 Deg C
Defrost	Automatic
Compressor	Hermetically sealed
Electrical Requirements	115V 60Hz
Exterior H x D x W Inches (mm)	68.6 x 33.6 x 36 (1742 x 853 x 914)
Ship Weigh lb/kg	142 Lbs.

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code Existing (#)	REF-06 0	Item Name New (#)	Refrigerator (3 Glass Doors) 2
Manufacturer	TRUE Food Service Equipment, Inc.	Model	TSD-69G
Program	Biology	Room Number (s)	351
Description	4 shelves per door, 3 sliding glass doors		
Fixed Mounting Type?		Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling F	
Size:	In inches, facing the item	Width:	78"
Weight:	In pounds	Depth:	30.1"
		Height:	79.2"
Electrical Requirements?	Voltage(s)	<input checked="" type="checkbox"/> 110V, 20A, 1Pha Electrical 208V, 3 Amperage 15	<input type="checkbox"/> Electrical 208V, 3 <input type="checkbox"/> Electrical 480V, 10 Number of amps (current drawn)
Data Outlet Requirements?: Process Fluids?: Drain?: check one	<input type="checkbox"/> None <input type="checkbox"/> Cold Water <input checked="" type="checkbox"/> None <input type="checkbox"/> General Drain	<input type="checkbox"/> Hot Water <input type="checkbox"/> Lab Grade 2 (2 megaOhm Water <input type="checkbox"/> Floor Drain	<input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water <input type="checkbox"/> Chilled Water <input type="checkbox"/> Acid Waste <input type="checkbox"/> Solvent
OTHER UTILITIES			
Air/ Vacuum/ Exhaust			
COMMENTS			
Provide with casters.			
Must have sliding door.			
Confirm width in field prior to ordering.			


**TRUE FOOD SERVICE
EQUIPMENT, INC.**

2001 East Terra Lane • O'Fallon, Missouri 63366
(636)240-2400 • Fax (636)272-2408 • (800)325-6152 • Intl Fax# (001)636-272-7546
Parts Dept. (800)424-TRUE • Parts Dept. Fax# (636)272-9471 • www.truemfg.com

Model:

TSD-69G**TSD Series:***Reach-In Glass Slide Door Refrigerator*

Project Name: _____

Location: _____

Item #: _____ Qty: _____

Model #: _____

A/A #

SIS #

**TSD-69G**

- ▶ Designed using the highest quality materials and components to provide the user with colder product temperatures, lower utility costs, exceptional food safety and the best value in today's food service marketplace.
- ▶ Oversized, factory balanced, refrigeration system holds 33°F to 38°F (.5°C to 3.3°C) for the best in food preservation.
- ▶ Stainless steel front. The very finest stainless with higher tensile strength for fewer dents and scratches. Energy efficient, "Low-E", double pane thermal glass doors.
- ▶ Adjustable, heavy duty PVC coated shelves.
- ▶ NSF-7 compliant for open food product.
- ▶ Unique space saving design for space tight kitchens.

Bottom mounted units feature:

- ▶ "No stoop" lower shelf.
- ▶ Storage on top of cabinet.
- ▶ Compressor performs in coolest, most grease free area of kitchen.
- ▶ Easily accessible condenser coil for cleaning.

ROUGH-IN DATA

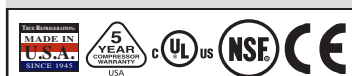
Specifications subject to change without notice.
Chart dimensions rounded up to the nearest 1/8" (millimeters rounded up to next whole number).

Model	Doors	Shelves	Cabinet Dimensions (inches) (mm)			HP	Voltage	Amps	NEMA Config.	Cord Length (total ft.) (total m)	Crated Weight (lbs.) (kg)
			L	D†	H*						
TSD-69G	3	9	78 1/8 1985	29 5/8 753	78 3/8 1991	1/2 1/2	115/60/1 230-240/50/1	12.0 6.9	5-15P ▲	9 2.74	625 284

† Depth does not include 3/8" (10 mm) for door handle.

* Height does not include 6 1/8" (156 mm) for legs or 5" (127 mm) for optional castors.

▲ Plug type varies by country.



1/13

Printed in U.S.A.

APPROVALS:

AVAILABLE AT:

12 62 02 - 31

Suburban Bowery

Model:
TSD-69G

TSD Series:
Reach-In Glass Slide Door Refrigerator



STANDARD FEATURES

DESIGN

- True's sliding door reach-in's are designed with enduring quality that protects your long term investment.
- True's commitment to using the highest quality materials and oversized refrigeration systems provides the user with colder product temperatures, lower utility costs, exceptional food safety and the best value in today's food service marketplace.

REFRIGERATION SYSTEM

- Factory engineered, self-contained, capillary tube system using environmentally friendly (CFC free) 134A refrigerant.
- Extra large evaporator coil balanced with higher horsepower compressor and large condenser; maintains 33°F to 38°F (.5°C to 3.3°C) for the best in food preservation.
- Sealed, cast iron, self-lubricating evaporator fan motor(s) and larger fan blades give True reach-in's a more efficient, low velocity, high volume airflow design. This unique design ensures faster temperature recovery and shorter run times in the busiest of food service environments.
- Bottom mounted condensing unit positioned for easy maintenance. Compressor runs in coolest and most grease free area of the kitchen. Allows for storage area on top of unit.

CABINET CONSTRUCTION

- Exterior - Stainless steel front. Anodized quality aluminum exterior ends and back.
- Interior - attractive, NSF approved, white aluminum liner. Stainless floor with coved corners.

- Insulation - entire cabinet structure is foamed-in-place using Ecomate. A high density, polyurethane insulation that has zero ozone depletion potential (ODP) and zero global warming potential (GWP).
- Welded, heavy duty steel frame rail, black powder coated for corrosion protection.
- Frame rail fitted with 6" (153 mm) legs.

DOORS

- "Low-E", double pane thermal glass insert with mitered plastic channel frame.
- Each door fitted with 12" (305 mm) long molded plastic handle.
- Self-closing doors, efficient counter balanced weight system for smooth, even, positive closure. Sliding doors ride on stainless steel V-Channel with stainless steel bearings. Doors fit within plastic channel frame.

SHELVING

- Nine (9) adjustable, heavy duty PVC coated wire shelves 23 ⁷/₈" L x 20 ⁹/₁₆" D (607 mm x 621 mm). Four (4) chrome plated shelf clips included per shelf.
- Shelf support pilasters made of same material as cabinet interior; shelves are adjustable on ¹/₂" (13 mm) increments.

LIGHTING

- Safety shielded fluorescent interior lighting.

MODEL FEATURES

- Exterior temperature display.
- Evaporator is epoxy coated to eliminate the potential of corrosion.
- NSF-7 compliant for open food product.

ELECTRICAL

- Unit completely pre-wired at factory and ready for final connection to a 115/60/1 phase - 15 amp dedicated outlet. Cord and plug set included.



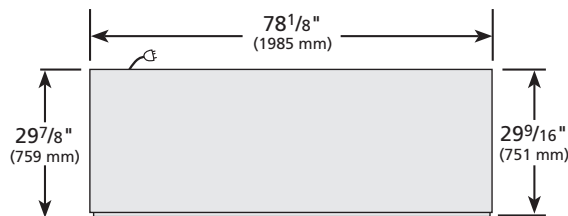
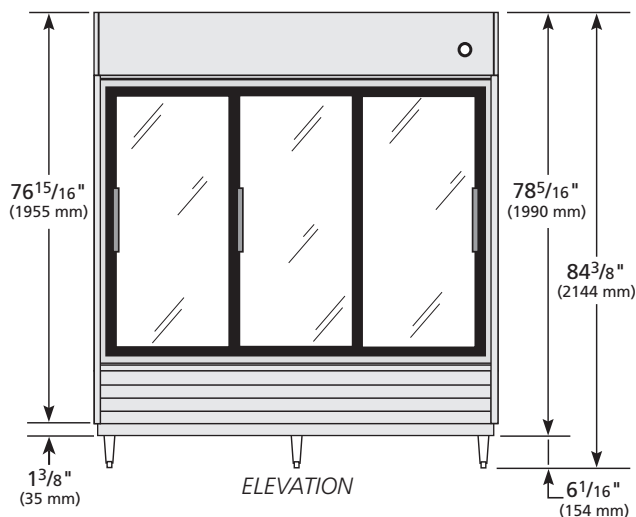
115/60/1
NEMA-5-15R

OPTIONAL FEATURES/ACCESSORIES

Upcharge and lead times may apply.

- ☐ 230 - 240V / 50 Hz.
- ☐ 4" (102 mm) diameter castors.
- ☐ Seismic/flanged legs.
- ☐ Door locks.
- ☐ Stainless steel interior.
- ☐ Additional shelves.
- ☐ Remote cabinets (condensing unit supplied by others; system comes standard with 404A expansion valve and requires R404A refrigerant). Consult factory technical service department for BTU information. All remote units must be hard wired during installation.

PLAN VIEW



WARRANTY
Three year warranty on all parts and labor and an additional 2 year warranty on compressor. (U.S.A. only)

METRIC DIMENSIONS ROUNDED UP TO THE NEAREST WHOLE MILLIMETER
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



Model	Elevation	Right	Plan	3D	Back
TSD-69G	TFGY15E	TFGY12S	TFGY12P	TFGY153	

TRUE FOOD SERVICE EQUIPMENT

2001 East Terra Lane • O'Fallon, Missouri 63366 • (636)240-2400 • Fax (636)272-2408 • (800)325-6152 • Intl. Fax# (001)636-272-7546 • www.truemfg.com

12 62 02 - 32

Suburban Bowery

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code Existing (#)	REF-97 0	Item Name New (#)	Refrigerator 1
Manufacturer	Norlake Scientific	Model	LRF201WWW/0
Program	A & P	Room Number (s)	361
Description	Refrigerator/Freezer - Auto defrost, forced air. Adjustable temperature control. 3 adjustable sliding refrigerator shelves, 1 adjustable freezer shelf.		
Fixed Mounting Type?	Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling F		
Size:	In inches, facing the item	Width:	30"
Weight:	In pounds 380 lbs	Depth:	34"
		Height:	68"
Electrical Requirements?	Voltage(s)	<input checked="" type="checkbox"/> 110V, 20A, 1Pha <input type="checkbox"/> Electrical 208V, 3 <input type="checkbox"/> Electrical 480V, 10	
	Amperage	4.5 Amps	Number of amps (current drawn)
Data Outlet Requirements?: Process Fluids?: <input type="checkbox"/> None <input type="checkbox"/> Cold Water Drain?: check one <input type="checkbox"/> None <input type="checkbox"/> General Drain	<input type="checkbox"/> Hot Water <input type="checkbox"/> Lab Grade 2 (2 megaOhm Water) <input type="checkbox"/> Floor Drain	<input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water <input type="checkbox"/> Chilled Water <input type="checkbox"/> Acid Waste <input type="checkbox"/> Solvent	
OTHER UTILITIES			
Air/ Vacuum/ Exhaust			
COMMENTS			
Provide with casters.			
Confirm width in field prior to ordering.			

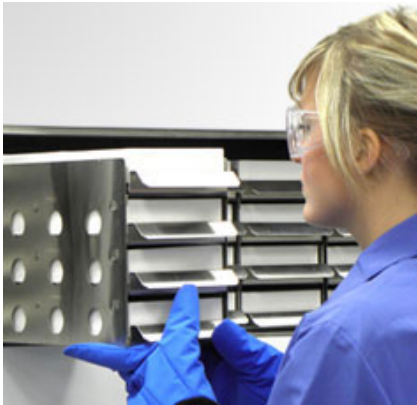
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SCIENTIFIC

Home / Scientific - Industrial / Products / Laboratory / Pharmacy / General Purpose / General Purpose Laboratory Refrigerator - Freezer Upright Auto Defrost

General Purpose Laboratory Refrigerator - Freezer Upright Auto Defrost



Standard Features

- Operating temperature: +4°C refrigerator, -10°C freezer
- Auto defrost, forced air
- Adjustable temperature control, independent for refrigerator and freezer
- 3 adjustable sliding full width shelves (refrigerator)
- 1 adjustable shelf (freezer compartment)
- Warranties: 12 months parts

LRF201WWW/0 General Purpose Laboratory Refrigerator - Freezer Upright Auto Defrost

General Purpose Laboratory Refrigerator - Freezer Upright Auto Defrost



Click image to enlarge

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Products

Overview

-86°C Select™ Ultra-Low Freezers

Laboratory / Pharmacy

Select™ Series

Premier™ Series

General Purpose

General Purpose Laboratory Refrigerator Upright Auto Defrost

General Purpose Laboratory Freezer Upright Auto Defrost

General Purpose Laboratory Refrigerator - Freezer Upright Auto Defrost

General Purpose Laboratory Freezer Upright Manual Defrost LF161

General Purpose Laboratory Freezer Upright Manual Defrost LF201

Undercounter

Blood Bank / Plasma

Chromatography Laboratory and Scientific Refrigerators

Sliding Glass Door / Pass-Thru Refrigerators


Flammable Storage / Explosion Resistant


Enzyme / Manual Defrost





- BOD / BIO Stability / Humidity
- Large Capacity Incubators
- Environmental Rooms / Mini-Room Walk-ins
- Lighted Chambers
- Warming Cabinets
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QUESTIONS



RESOURCES


SERVICE


WARRANTY


ORDER


CONTACT


FEEDBACK

Standard Features

Specifications

Optional Features

SPECIFICATIONS

Crated Weight (lbs)(kg):	380
Crated Height (in)(cm):	71-3/8 (181)
Crated Width (in)(cm):	42 (106)
Crated Depth (in)(cm):	42 (106)
Interior Height (in)(cm):	39-1/2 (100)
Interior Height Freezer (in)(cm):	17-1/4 (43)
Interior Width (in)(cm):	26 (66)
Interior Width Freezer (in)(cm):	24 (60)
Interior Depth (in)(cm):	26-1/2 (67)
Interior Depth Freezer (in)(cm):	22 (55)
Overall Height (in)(cm):	68 (172)
Overall Width (in)(cm):	30 (76)
Overall Depth (in)(cm):	34 (86)
Gross Cubage (CuFt)(L):	15.0 (0.4)
Gross Cubage Freezer (CuFt)(L):	5.5 (0.1)
Refrigerant:	R-134a
Voltage Description:	115/60/1
NEMA Plug Configuration:	5-15P
NEMA Receptacle:	5-15R
Maximum Fuse Size:	15 Amps
Total Amp Draw :	4.5

Downloads

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Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code Existing (#)	REF-98 0	Item Name New (#)	Refrigerator 1
Manufacturer	Fisher Scientific	Model	13-986-111D
Program	Biology	Room Number (s)	331
Description	Flammable Material Storage Refrigerator - Manual Defrost, Top-mounted hydraulic thermostat and door stop.		
Fixed Mounting Type?	Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling		
Size: In inches, facing the item	Width: 24.5"	Depth: 23.5"	Height: 65"
Weight: In pounds	170lbs		
Electrical Requirements?	Voltage(s)	<input checked="" type="checkbox"/> 110V, 20A, 1Pha <input type="checkbox"/> Electrical 208V, 3	<input type="checkbox"/> Electrical 208V, 3 <input type="checkbox"/> Electrical 480V, 10
Amperage	Number of amps (current drawn)		
Data Outlet Requirements?: Process Fluids?: <input type="checkbox"/> None <input type="checkbox"/> Cold Water Drain?: check one <input type="checkbox"/> None <input type="checkbox"/> General Drain	<input type="checkbox"/> Data <input type="checkbox"/> Hot Water <input type="checkbox"/> Lab Grade 2 (2 megaOhm Water <input type="checkbox"/> Floor Drain	<input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water <input type="checkbox"/> Chilled Water <input type="checkbox"/> Acid Waste <input type="checkbox"/> Solvent	
OTHER UTILITIES			
Air/ Vacuum/ Exhaust			
COMMENTS			
Provide with casters or rollers.			
No lock required.			

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code	DP-01	Item Name	Digital Polarimeter
Existing (#)	0	New (#)	1

Manufacturer	Rudolph Research Analytical	Model	Autopol III
--------------	-----------------------------	-------	-------------

Program	Chemistry	Room Number (s)	341
---------	-----------	-----------------	-----

Description	Automatic Polarimeter
-------------	-----------------------

Fixed

Mounting
Type?

Respond **Yes**, if item is fastened in place or solidly
connected to utility services, else **No**.

F= Floorstanding,

D= Desk or benchtop mounted

W= Wall mounted, or suspended from ceiling

Size:	In inches, facing the item	Width:	24.3"	Depth:	17.5"	Height:	12.7"
Weight:	In pounds		42 lbs				

Electrical
Requirements?

Voltage(s)



110V, 20A,
1Pha



Electrical 208V, 3



Electrical
208V, 3



Electrical 480V, 10

Amperage

Number of amps (current drawn)

Data Outlet
Requirements?:



Data

Process

Fluids?:



None



Hot Water



Lab Grade 1 (18 megaOhm) Water



Cold Water



Lab Grade 2 (2 megaOhm Water



Chilled Water

Drain?:

check
one



None



General
Drain



Floor Drain



Acid
Waste



Solvent

OTHER UTILITIES

Air/
Vacuum/
Exhaust

COMMENTS

Refer to attached description.

DP-01

For Today's GLP/GMP Laboratories

The Autopol® III Automatic Polarimeter



 **RUDOLPH
RESEARCH
ANALYTICAL**

TECHNICAL BULLETIN 919

The Autopol III is Rudolph's entry level Dual Wavelength Pharmaceutical and Research grade polarimeter offering accuracy similar to Rudolph's more advanced models, but with a simplified interface. Just place your cell in the sample chamber, press the large red **Measure** Key and get 5 results in less than 25 seconds. It's that easy.



The Autopol III's thermo probe is covered with a micron thick glass coating to stand up to high molar Hydrochloric Acids used by some pharmaceutical labs.

A cGLP/GMP compliant printout, which includes the temperature of the sample is generated by pressing the **Print/Send** Key after the measurement is finished.

The Autopol III comes standard with one of the three different Accessory Packages shown below. Each Package includes a NIST Traceable Calibration Standard and Certificate, two Tungsten Halogen Lightsource lamps and an alignment target, but different cell configurations. You select the package that is right for your lab.

ACCESSORY PACKAGE A

Accessory Package A includes one 100mm, 6ml glass center fill cell and one 100mm, 6ml glass center fill stainless steel jacketed cell. This is our most popular package, as cell windows can be removed and cleaned to avoid sample residue build up. All cells in this package are compatible with acids.

Heading

Instrument Identifier

Rudolph Research Analytical

This sample was measured on an Autopol III, serial number 99999, manufactured by Rudolph Research Analytical, Hackettstown, NJ.

Sample Name: Sucrose

Lot ID: 54321

Probe Temperature: 25.0

No	Sample ID	Measurement	WLG	CellLg	Conc	Temp	Time	Date
1	1234	34.561 SR	589	100	100.000	25.1	07:59:20 AM	Jan 30, 2005
2	1234	34.561 SR	589	100	100.000	25.0	07:59:37 AM	Jan 30, 2005
3	1234	34.558 SR	589	100	100.000	25.0	07:59:40 AM	Jan 30, 2005

Counts: 3

Average: 34.561

Std. Dev: 0.0001

Maximum: 34.561

Minimum: 34.558

Statistics

Displayed Measurement & Measurement Type

Wavelength

User Input Sample Cell Length

User Input Solution Concentration

Sample Temperature Measured by Built-In Temperature Probe

ACCESSORY PACKAGE B

Accessory Package B includes one 50mm glass jacketed fixed end cell and one 100mm glass center fill cell with removable windows. Fused end cells avoid improper assembly by untrained users, but are very fragile and difficult to clean. All cells in this package are compatible with acids.

ACCESSORY PACKAGE C

Accessory Package C is designed for small volume and durability and is very popular with universities. Each cell has a lifetime warranty against breakage, is easily filled and cell windows can be removed, cleaned and replaced if necessary. Cells are available in 50mm, 100mm and 200mm length versions. Cell volumes range from 0.25ml to 15ml.



Package A



Package B



Package C

SPECIFICATIONS:

Measuring Mode:	Optical Rotation, Specific Rotation, Concentration, °Z (ISS) Sugar Degrees
Measuring Scale:	Degrees Arc Optical Rotation
Measuring Range:	±89° Arc Optical Rotation
Resolution:	0.001° Arc Optical Rotation
Reproducibility:	0.002° Arc Optical Rotation
Accuracy:	0.002° Arc up to 1°, 0.2% above 1°
Prism:	Glan Thompson Calcite
Optical Wavelengths:	589nm, 546nm
Temp. Control Range:	Available on Autopol V only. Temperature control by circulating water bath
Temp. Probe Measurement Range:	10° - 40°C
Temp. Probe Measurement Accuracy:	±0.1°C
Measurement Time:	5 measurements in less than 25 seconds (avg.)
Light Source:	Tungsten-halogen 6V, 20W, avg. 2,000 hour life
Sample Chamber:	Accepts sample tubes up to 200mm
Data Storage:	Available on Autopol V only.
Communication Interface:	Two RS232 serial ports, one parallel printer port
Analog Output:	0.1% resolution 0-10 volt full range (optional)
Calibration:	Automatic calibration via touchscreen
Display:	7.5cm x 10cm Graphics LCD, 320 x 240 dots cold fluorescent back lit
User Interface:	Touchscreen
Automatic Sensitivity Control:	Measures samples with transmittance as low as 0.01% (up to O.D. 4.0)
Input Power:	100 - 240 V, 50/60 Hz
Operating Dimensions:	24.3"W x 12.7"H x 17.5"D 617mm W x 323mm H x 445mm D
Shipping Dimensions:	36"W x 19"H x 21"D 923mm W x 487mm H x 538 mm D
Operating Weight:	42 lbs. (19.05 kg)
Shipping Weight:	72 lbs. (32.6 kg)
Calendar/Clock Functions:	Battery-backed clock; time and date sent to computer & printer

University of Illinois at Chicago
Rm 4500 SES (MC 111)
845 W. Taylor St.
Chicago, IL 60607
Attn: Chad Landrie / 312-996-3178 / clandrl@uic.edu
Copy: Dr. Duncan J. Wardrop / wardropd@uic.edu

QUOTATION

No. Q24009D

DATE: June 19, 2009

TERMS: See Page 5

F.O.B.: Destination

DELIVERY: See Page 5

QUOTATION EXPIRES: July 19, 2009

We are pleased to quote as follows:

Page 1 of 5

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
1 ea.	 <p>A21101 AUTOPOL III - Dual Wavelength (589/546nm) Automatic Polarimeter is a servo-controlled, optical-null-balancing photoelectric instrument that automatically measures, and digitally displays the magnitude and sign of angles through which optically active substances rotate linearly polarized light. All operations can be performed under normal ambient illumination and the operator is completely free from the strain of visual and manual balancing. The operating controls are simple and convenient and all other functions are fully automatic. Wavelength selection via touch screen.</p> <p>Less 5% University Discount Net Price After Discount</p>		



QUOTATION

No. Q24009D

DATE: June 19, 2009

TERMS: See Page 5

F.O.B.: Destination

DELIVERY: See Page 5

QUOTATION EXPIRES: July 19, 2009

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We are pleased to quote as follows:

Page 2 of 5

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
	Features and Specifications:		
	1. Measuring Modes: Optical Rotation, Specific Rotation, Specific Rotation Plus, Concentration, °Z (ISS) For 589nm only, and User Defined Scale		
	2. Measuring Scales: Degrees Arc, Optical Rotation, °Z (ISS) for 589nm only		
	3. Measuring Range: ±89° Arc Optical Rotation		
	4. Resolution: 0.001° Arc Optical Rotation		
	5. Reproducibility: 0.002° Arc Optical Rotation		
	6. Accuracy: 0.002° up to 1° 0.2%, above 1°		
	7. Prism: Glan Thompson Calcite Quartz		
	8. Optical Wavelengths: 589nm, 546nm		
	9. Temp. Control Range: Available on Autopol V only; Temperature control by circulating water bath		
	10. Temp. Probe Measurement Range: 10° - 40°C		
	11. Temp. Probe Measurement Accuracy: ±0.1°C		
	12. Measurement Time: 5 measurements in less than 25 seconds (avg.)		



QUOTATION

No. Q24009D

DATE: June 19, 2009

TERMS: See Page 5

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We are pleased to quote as follows:

Page 3 of 5

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
	13. Light Source: Tungsten-halogen 6V, 20W, avg. 2,000 hour life.		
	14. Sample Chamber: Accepts sample tubes up to 200mm		
	15. Data Storage: Available on Autopol V only.		
	16. Communication Interface: Two RS232 serial ports, One parallel printer port		
	17. Analog Output: 0.1° resolution 1-10 volt full Range (optional)		
	18. Calibration: Automatic calibration via touchscreen		
	19. Display: 7.5cm x 10cm Graphics LCD, 320 x 240 dots cold fluorescent back lit		
	20. User Interface: Touchscreen		
	21. Automatic Sensitivity Control: Measures samples with transmittance as low as 0.01% (up to O.D. 4.0)		
	22. Input Power: 100-240 V, 50/60 Hz		
	23. Calendar/Clock Functions: Battery-backed clock; Time and date sent to computer & printer.		



QUOTATION

No. Q24009D

DATE: June 19, 2009

TERMS: See Page 5

F.O.B.: Destination

DELIVERY: See Page 5

QUOTATION EXPIRES: July 19, 2009

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845 W. Taylor St.
Chicago, IL 60607
Attn: Chad Landrie / 312-996-3178 / clandrl@uic.edu
Copy: Dr. Duncan J. Wardrop / wardropd@uic.edu

We are pleased to quote as follows:

Page 4 of 5

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
	The Autopol III Automatic Polarimeter comes standard with the following Accessory Package:		
	Accessory Package Z:		
	1 ea. A700-1 Quartz Control Plate Assembly with NIST traceable with Certificate		
	2 ea. P10329 Prefocused Halogen Lamp		
	1 ea. A7561 Target		
	1 ea. 32-5-50-1.0 Flow-Through all Stainless Steel construction Polarimeter Sample Tube, having pour-in funnel and exit tubing, with an 5.0mm inside diameter, 50mm optical pathlength, and a 1.0ml volume.		
	1 ea. 32-5-100-2.0 Flow-through all stainless steel construction, Polarimeter Sample Tube with a 5.0mm inside diameter, 100mm optical pathlength, and a 2.0ml volume.		
	1 ea. A21171 User Manual		
	1 ea. A21170 IQ/OQ/PQ Documentation		
	Additional Requested Accessory:		
1 ea.	32-5-50-1.0 Flow-through all stainless steel construction, Polarimeter Sample Tube with a 5.0mm inside diameter, 50mm optical pathlength, and a 1.0ml volume. All 32 Style Cells come with Luer fittings and syringe. Cells will also allow connection to HPLC in order that the polarimeter may be used as an HPLC detector (for APIV and APV models only).		



QUOTATION

No. Q24009D

DATE: June 19, 2009

TERMS: See Page 5

F.O.B.: Destination

DELIVERY: See Page 5

QUOTATION EXPIRES: July 19, 2009

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Attn: Chad Landrie / 312-996-3178 / clandrl@uic.edu
Copy: Dr. Duncan J. Wardrop / wardropd@uic.edu

We are pleased to quote as follows:

Page 5 of 5

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
	TOTAL FOB FACTORY		
	FREE SHIPPING & HANDLING FOR UNIVERSITIES		
	TOTAL FOB DESTINATION		
	<u>TERMS & CONDITIONS:</u>		
	1. Delivery: 30 days ARO		
	2. Payment: Net 30		
	3. Warranty: Two years parts and labor		
	4. Shipping Weight: (1 unit) 72 lbs. Dimensions: (1 unit) 30" x 27" x 24"		
	5. Applicable sales tax for NY, NJ, CA, IN and MN will be added at time of invoicing. If you need this information in advance, please request a revised quote.		

R/R by

Richard C. Spanier, Director of Sales & Marketing

Rudolph Research Analytical 55 Newburgh Rd., Hackettstown, NJ 07840 • 973-584-1558 • Fax: 973-584-5440
Email: info@rudolphresearch.com • Internet: www.rudolphresearch.com

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code Existing (#)	ICE-81 0	Item Name New (#)	Ice Maker Cube 1
Manufacturer	Scotsman	Model	C0322SA-1 / B322S
Program	Biology	Room Number (s)	338
Description	Self-Contained cube ice maker. #C0322SA – Provide with Bin #B322S. Cubesize small.		

Fixed Mounting Type?	F	Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling
----------------------------	---	---

Size: In inches, facing the item	Width: 22"	Depth: 34"	Height: 44"
Weight: In pounds 185lb			

Electrical Requirements?	Voltage(s)	<input checked="" type="checkbox"/> 110V, 20A, 1Pha <input type="checkbox"/> Electrical 208V, 3 Amperage 15	<input type="checkbox"/> 110V, 20A, 1Pha <input type="checkbox"/> Electrical 208V, 3 Number of amps (current drawn)	Electrical 208V, 3 Electrical 480V, 10
-----------------------------	------------	---	---	---

Data Outlet Requirements?: Process Fluids?:	<input type="checkbox"/> None <input checked="" type="checkbox"/> Cold Water	Data	<input type="checkbox"/> Hot Water <input type="checkbox"/> Lab Grade 2 (2 megaOhm Water)	<input type="checkbox"/> Lab Grade 1 (18 megaOhm) Water <input type="checkbox"/> Chilled Water
Drain?: check one	<input type="checkbox"/> None <input type="checkbox"/> General Drain	<input checked="" type="checkbox"/> Floor Drain	<input type="checkbox"/> Acid Waste	<input type="checkbox"/> Solvent

OTHER UTILITIES
 Air/
Vacuum/
Exhaust

COMMENTS
 Self contained, air cooled compressor
 Provide water connection with valve.
 Back Flow

ICE-81

Scotsman®
Ice Systems

PRODIGY®

C0322 – 300 lb Cube Ice Machine

C0322 – 300 lb Cube Ice Machine

Prodigy® Modular Cube Ice Maker



Shown on B3225 bin.

Features

Prodigy® cubers use **significantly less energy and water** than other cube ice machines, exceeding Federal energy efficiency regulations.

AutoAlert™ indicator lights constantly communicate about operating status and actually signal your staff when it's time to descale, sanitize, and more—making upkeep practically foolproof.

The patented **WaterSense adaptive purge control** delivers maximum reliability by reducing scale buildup for a longer time between cleanings.

Preventative maintenance is simpler than ever with easily-removed panels allowing clear access to internal components and a diagnostic code display insuring the right fix the first time. Reusable air filter is easily removable from the outside.

All external panel components are crafted for **optimal aesthetic appeal** through superior fit and finish.

An optional **advanced feature Smart-Board™** provides NAFEM data protocol and additional operational data that can be displayed on-screen or transmitted remotely, resulting in early alert and fast diagnosis of operating issues.

An optional **Vari-Smart™ ultrasonic ice level control** sensor allows you flexibility to program ice levels, for up to 7 days, keeping just the right amount of freshly made ice in the bin.

24 Hour Volume Production

Air Cooled		
70°F/21°C 50°F/10°C lb/kg	Air Water	AHRI 90°F/32°C 70°F/21°C lb/kg
356/162		255/116

Water Cooled		
70°F/21°C 50°F/10°C lb/kg	Air Water	AHRI 90°F/32°C 70°F/21°C lb/kg
366/166		280/127



Modular Bin Options

Model Number	Dimensions W" x D" x H"	AHRI Certified Bin Capacity lb/kg	Application Capacity lb/kg	Finish	Ship Weight lb/kg
B3225	22 x 34 x 44	290/132	370/168	SS	140/64



Bin: B2225

Cube Ice


 Small Cube
7/8" x 7/8" x 3/8"
(2.22 x 2.22 x .95 cm)

 Medium Cube
7/8" x 7/8" x 7/8"
(2.22 x 2.22 x 2.22 cm)

Common ice form, ideal for mixed drinks.

Warranty

- 3 years parts and labor on all components.
- 5 years parts and labor on the evaporator.
- 5 years parts on the compressor and condenser.

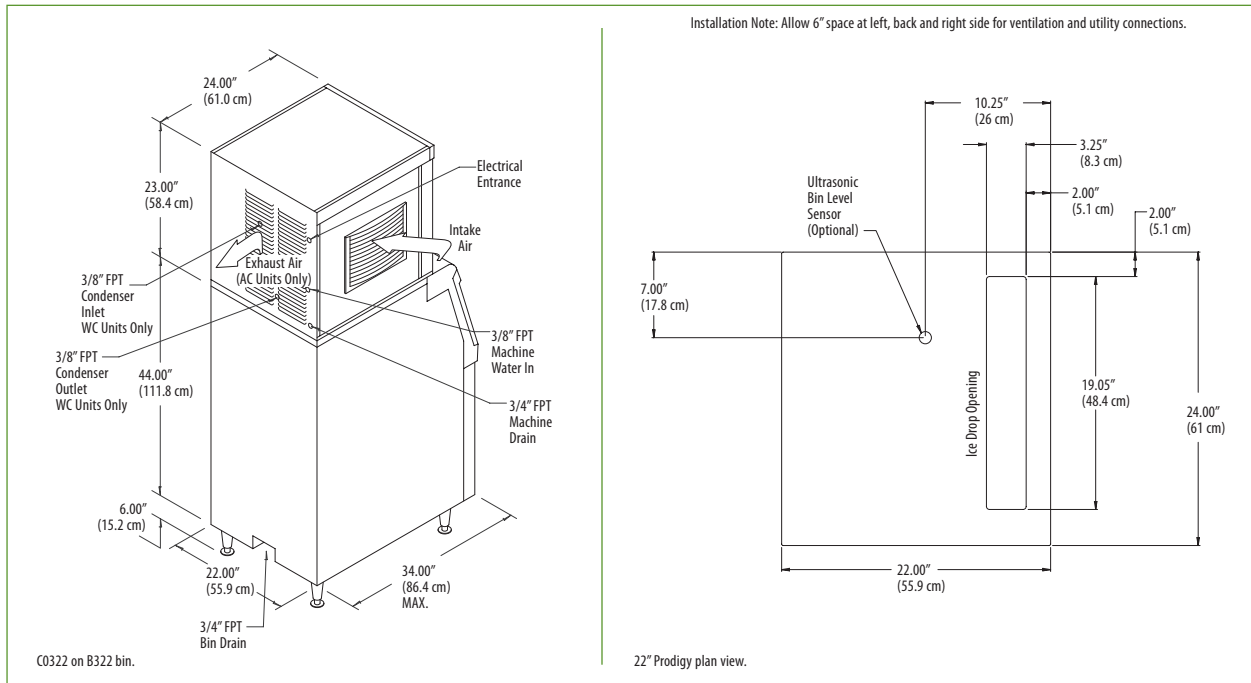
Warranty valid in North, South & Central America.
Contact factory for warranty in other regions.

Scotsman Ice Systems • 775 Corporate Woods Parkway • Vernon Hills, IL 60061

1-800-SCOTSMAN

Fax: 847-913-9844

 E-mail: customer.relations@scotsman-ice.com
www.scotsman-ice.com



Specifications

Model Number* Cube Size: medium or small	Condenser Unit	Basic Electrical Volts/Hz/Phase	Max. Fuse Size or HACR Circuit Breaker (amps)	Circuit Wires	Min. Circuit Ampacity	Energy Consumption kWh/100 lb (45.4 kg) 90°F(32°C)/70°F(21°C)	Water Usage Gallons/100 lb (liters/45.4 kg)	
							Potable 90°F(32°C)/ 70°F(21°C)	Condenser 90°F(32°C)/ 70°F(21°C)
med. C0322MA-1	Air	115/60/1	15	2	12.7	6.6	19.0/72.0	-
C0322MW-1	Water	115/60/1	15	2	11.9	5.2	18.3/69.4	163.0/617.0
sm. C0322SA-1	Air	115/60/1	15	2	12.7	6.6	19.0/72.0	-
C0322SW-1	Water	115/60/1	15	2	11.9	5.2	18.3/69.4	163.0/617.0

* 208-230/60/1 Voltage - Substitute "-32" in place of "-1", i.e. C0322SA-32A. = ENERGY STAR®

All Models

Dimensions (W x D x H):

Unit:

22" x 24" x 23"
(55.9 x 61.0 x 58.4 cm)

Shipping Carton:

25.5" x 27.5" x 28"
(64.8 x 69.9 x 71.1 cm)

Shipping Weight:

145 lb / 66 kg

BTUs per hour:

5,200

Accessories

Model Number	Description
KVS	Vari-Smart™ Ice Level Control - Program ice bin levels to match ice needs.
KSBU	Smart-Board™ Advanced Control - Use additional operational data for fast diagnosis.
KSBU-N	Smart-Board™ Advanced Control with Network - Network capable.
KPAS	Prodigy Advanced Sustainability kit- Includes KVS and KSBU-N

* Scotsman recommends all ice machines have water filtration. See Scotsman Sanitation Matrix for details.

Operating Requirements

	Minimum	Maximum
Air Temperatures	50°F (10°C)	100°F (38°C)
Water Temperatures	40°F (4.4°C)	100°F (38°C)
Remote Cond. Temps	-20°F (-29°C)	120°F (49°C)
Water Pressures	20 PSIG (1.4 bar)	80 PSIG (5.5 bar)
Electrical Voltage	-10%	+10%

Specifications and design are subject to change without notice.

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Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code Existing (#)	GW-01	Item Name New (#)	Glass Washer 1
Manufacturer	Lancer	Model	1400 LXP
Program	Biology	Room Number (s)	351
Description	Automatic washer/dryer, electronic microprocessor. Drop down door, on board chemical storage		

Fixed Mounting Type?	F	Respond Yes , if item is fastened in place or solidly connected to utility services, else No . F= Floorstanding, D= Desk or benchtop mounted W= Wall mounted, or suspended from ceiling
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Size: In inches, facing the item	Width: 31.1"	Depth: 32.71"	Height: 68.02"
Weight: In pounds			

Electrical Requirements?	Voltage(s)	<input type="checkbox"/>	110V, 20A, 1Pha	<input type="checkbox"/>	Electrical 208V, 3
		<input checked="" type="checkbox"/>	Electrical 208V, 3	<input type="checkbox"/>	Electrical 480V, 10
	Amperage				Number of amps (current drawn)

Data Outlet Requirements?: Process Fluids?:	<input type="checkbox"/>	Data	<input type="checkbox"/>	Lab Grade 1 (18 megaOhm) Water
<input type="checkbox"/> None	<input checked="" type="checkbox"/>	Hot Water	<input type="checkbox"/>	Chilled Water
<input checked="" type="checkbox"/> Cold Water	<input type="checkbox"/>	Lab Grade 2 (2 megaOhm Water	<input type="checkbox"/>	
Drain?: check one	<input type="checkbox"/> None	<input checked="" type="checkbox"/> General Drain	<input type="checkbox"/>	Floor Drain
			<input type="checkbox"/>	Acid Waste
			<input type="checkbox"/>	Solvent

OTHER UTILITIES
 Air/
 Vacuum/
 Exhaust

COMMENTS
 Bio Room 351
 GW-01a – Provided/ Installed by others
 GW-01b – Provided/ Installed by this contract.

GW-01

PRODUCTS: 1400 LXP Freestanding Glassware Washer

1400 LXP Freestanding Glassware Washer Dryer: Overview



[Overview](#)
[Product Features](#)
[Information Downloads](#)
[Technical Data](#)
[Accessories](#)
[Configurations/Options](#)

High Volume Washing with premium features

The Lancer 1400 LXP freestanding glassware washer dryer has a wide chamber and 3 levels with a choice of positions at the upper levels. This enables washing and drying high volumes of glassware – whether lots of similar items or mixed loads of various types and sizes. Suitable for either high throughput labs or centralized washing facilities serving many labs, several 1400 LXP models provide a continual bulk cleaning process. The 1400 LXP offers adjustable drying in 1° C increments. Additional options for the 1400 LXP include: validation monitor, flowmeter, (2) extra dosing pumps and a conductivity meter, making it suitable for labs involved in pharma processing but where full GMP specifications are not required.

Key features of 1400 LXP:

- Larger and wider chamber for greater capacity and volume with three levels of cleaning
- More robust control system allowing for great washer functionality
- Optional independent monitoring system
- Powerful and rapid HEPA filtered drying through injectors and in wash chamber
- Increased safety with on-board storage and input of chemicals
- Higher grade 316 L Stainless Steel Chamber

All Lancer washers feature these key benefits:

- Fast cycles and outstanding results from powerful wash action and design
- Easy to use microprocessor controls with self-diagnostic software and alarms
- Flexibility of multi-level injection washing and interchangeable racks
- All sizes and types of glassware cleaned with chamber configuration choices
- Ergonomic and safe loading of racks on load bearing telescopic runners
- Choice of preset and user-customized (PIN code protected) programs
- Accurate and repeated intake of cleaning chemicals by automatic peristaltic dosing pumps
- Robust high grade 304 L and 316L stainless steel construction (varies by model)
- IQ/OQ protocol and validation options available
- Cost effective – low life cycle costs and efficient operation uses less resources and inventory
- Eco-friendly low energy, chemicals and water usage

[Search](#)

United States / English

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News Info

[Lancer Video Released 7/6/11](#)

Glassware Washing Made Easy

[Lancer In the News!](#)

AAI Pharma Services Announces...

Events Info

Jul 28-31, 2013

IAFP 2013

Charlotte, NC

Equipment Code Existing (#)	GW-02	Item Name New (#)	Glass Washer 1
Manufacturer	Labconco	Model	4400330
Program	Biology	Room Number (s)	351
Description	Undercounter steam scrubber		

Fixed

Mounting
Type?

F

Respond **Yes**, if item is fastened in place or solidly
connected to utility services, else **No**.

F= Floorstanding, D= Desk or benchtop mounted
W= Wall mounted, or suspended from ceiling

Size:	In inches, facing the item	Width:	24.1"	Depth:	27.4"	Height:	34.1-36.1"
Weight:	In pounds						

Electrical
Requirements?

Voltage(s)

☒

110V, 20A,
1Pha

☐

☐

Electrical
208V, 3

☐

Amperage

16

Number of amps (current drawn)

Electrical 208V, 3

Electrical 480V, 10

Data Outlet
Requirements?:

☐

Data

Process
Fluids?:

☐ None

☒ Hot Water

☐ Lab Grade 1 (18 megaOhm) Water

☒ Cold Water

☐ Lab Grade 2 (2 megaOhm Water

☐ Chilled Water

Drain?:
check
one

☐ None

☒ General
Drain

☐ Floor Drain

☐ Acid
Waste

☐ Solvent

OTHER UTILITIES

Air/
Vacuum/
Exhaust

COMMENTS

Home » Products » Glassware Washers & Water Purification Systems » Glassware Washers » SteamScrubber Glassware Washers » 4400330



GW-02

Undercounter SteamScrubber with Viewing Window and Light



Catalog Number:
4400330

Qty:

[Request a Quote](#)

Key features

Electrical Standard:

Domestic

Product Subcategory: SteamScrubber

Style: Undercounter

Specifications

Description

Literature

Weight: 206.0 lbs
Weight metric: 93.0 kg
Dimensions: 24.1"w x 27.4"d x 34.1-36.1"h
Dimensions metric: 61.2 cm w x 69.6 cm d x 86.6-91.7 cm
Electrical: 115 V, 60 Hz, 16 amps. 20 amp circuit breaker is required.

Conformance: CAN/CSA C22.2, ETL, UL
Electrical Standard: Domestic
Internal Temperature: Heat up to 180°F (82°C)
Product Subcategory: SteamScrubber
Style: Undercounter

Accessories

Related Products

Categories



Glassware Washer & Water Purification System Accessories

Numerous accessories and consumables are available to complete and customize your Labco Glassware Washer or

Undercounter SteamScrubber with Viewing Window and Light



Catalog Number:
4400330

Qty:

[Request a Quote](#)

Key features

Electrical Standard:

Domestic

Product Subcategory: SteamScrubber

Style: Undercounter

Specifications

Description

Literature

Compliance: UL 61010-1, CAN/CSA C22.2 No. 61010.1, ETL listed.

SteamScrubber Glassware Washers are designed to wash and dry general purpose labware. They have stainless steel top and bottom racks that accommodate basket inserts for a wide variety of glassware shapes and sizes, primarily beakers and other wide-mouth glassware. Specialized inserts for BOD bottles, petri dishes, culture tubes and small utensils enhance the SteamScrubber's versatility. In addition, the SteamScrubber accommodates Upper and Lower Spindle Racks. (Additional racks and basket inserts are sold separately). Architect 3-Part Specifications are available for downloading.

Features

- Upper and lower racks, of Type 304 stainless steel. Upper rack has additional wash arm and side release latches for easy lift out. Racks accommodate a variety of inserts for holding beakers, culture tubes and other specialty glassware (inserts sold separately).
- Water temperature reaches 82° C (180° F) on 115 Volt models and 93° C (199° F) on 230 Volt models to sanitize glassware and for enhanced washing and faster drying.

12 62 02 - 54

Accessories

Related Products

Categories



Glassware Washer & Water Purification System Accessories

Numerous accessories and consumables are available to complete and customize your Labco Glassware Washer or

WaterPro
System.

- LCD information center for customizing cycles and monitoring operation, including internal water temperature (° C or ° F)
- Water recirculation rates of 96 gal/min (363 liters/min) when operated on 115 Volt, 60 Hz and 230 Volt, 50 Hz and 112 gal/min (424 liters/min) on 230 Volt, 60 Hz for thorough cleaning
- Dual pumps, one for washing and one for draining, to reduce potential for cross contamination
- Built-in purified water pump to bring non-pressurized or pressurized purified water into the tank for up to six pure water rinses
- Built-in steam generator that produces hot vapor to penetrate and remove dried residue for cleaner glassware
- Manual-fill detergent dispenser for powder or liquid detergent
- Manual-fill rinse aid solution dispenser
- Built-in forced air drying up to 99 minutes and programmable from 38-70°C (100-158° F)
- Factory-set cycle programs. All 115 volt models have seven programs: RINSE ONLY, PLASTIC, GLASS, GLASS PLUS, SCIENTIFIC, SCIENTIFIC PLUS, and DRY ONLY. All 230 Volt models have three additional programs for a total of ten: INTENSE, INTENSE PLUS and EXTREME.
- Two user-set cycle programs
- Programs may be locked to prevent unauthorized changes
- Alarms with display for HOT GLASS, PLEASE WAIT, WATER LOW, WATER HIGH, OVERFLOW, LIQ DETER, RINSE AID, DRAIN FAIL and LOW TEMP.
- User-set delayed start (up to 8 hours)
- Type 304, brushed stainless steel door, tank, upper and lower wash arms. Freestanding models also have stainless steel exterior sides and top.
- One-piece, stainless steel, fine mesh particle drain filter to trap debris in tank to protect the pumps
- No center water distribution tower allowing for greater glassware capacity
- Four leveling feet
- 3/8" Female NPT inlet fitting for hot tap water connection
- Factory-installed drain hose and band clamp
- Two year warranty on parts and labor
- Made in the U.S.A.
- Accommodate optional Upper and Lower Spindle Racks (without forced air drying through the spindles). Spindle Rack sold separately.

Options

- Standard freestanding style, standard undercounter style, and SteamScrubber 33 undercounter style with 32.9" (83.6 cm) minimum height to fit under ADA-height cabinetry
- Viewing window with LED interior light allows observation of the cycle in progress.
- High heat on 208/230 volt models. Interior temperatures reach sanitizing 93° C (199° F) with a minimum inlet temperature of 49° C (120° F).

Recently Viewed Products

Laboratory Equipment

Oakton Community College Science and Health Careers Center

Equipment Code	VS-01	Item Name	Spectrophotometer
Existing (#)	0	New (#)	1

Manufacturer	Thermo Scientific	Model	14-385-445 / FS
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Program		Room Number (s)	
---------	--	-----------------	--

Description	Integrated controls, LCD Display. Thermo Scientific No. 4001-000
-------------	--

Fixed

Respond **Yes**, if item is fastened in place or solidly connected to utility services, else **No**.

Mounting
Type?

F= Floorstanding, D= Desk or benchtop mounted
W= Wall mounted, or suspended from ceiling

D

Size:	In inches, facing the item	Width:	13"	Depth:	12"	Height:	7"
Weight:	In pounds		10 lbs				

Electrical
Requirements?

Voltage(s)



110V, 20A,
1Pha



Electrical 208V, 3



Electrical
208V, 3



Electrical 480V, 10

Amperage

Number of amps (current drawn)

Data Outlet
Requirements?:



Data

Process

Fluids?:



None



Hot Water



Lab Grade 1 (18 megaOhm) Water



Cold Water



Lab Grade 2 (2 megaOhm Water



Chilled Water

Drain?:

check
one



None



General
Drain



Floor Drain



Acid
Waste



Solvent

OTHER UTILITIES

Air/
Vacuum/
Exhaust

COMMENTS

